

ABSTRACT

**[0048]** A method of manufacturing a roofing shingle includes coating a continuously supplied shingle mat with roofing asphalt to make an asphalt coated sheet. A first portion of granules is applied onto the asphalt coated sheet, wherein the first portion contains substantially no anti-microorganism granules. A second portion of granules is applied over the first portion of granules, wherein the second portion of granules comprises granules and anti-microorganism granules. The granules and anti-microorganism granules which are not adhered to the asphalt coated sheet are the removed.